

APR 05 2007

Serial No. 10/065,850
Reply to Office Action of November 7, 2006

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LISTING OF CLAIMS

This listing of the claims will replace all prior versions and listing of claims in the application.

Claims 1-11 (*Canceled*)

12. (*Currently amended*) An organic electronic device comprising:
a first electrode;
a second electrode that comprises a first layer of a first electrically conducting material comprising an alloy of Al with at least one low work function metal or a zero valent metal selected from K, Li, Na, Mg, La, Ce, Ca, Sr, Ba, Sm, Eu, an alloy thereof, or a mixture thereof, and a plurality of electrically interconnected elongated members of a second electrically conducting material comprising Mg, Al, Ag, In, Sn, Zn, Zr, an alloy thereof, or a mixture thereof, said elongated members being disposed on and in electrical contact with said first layer; and
at least an electrically and optically active organic material disposed between said first electrode and said first layer of said second electrode, on a surface of said first layer opposite to the plurality of electrically interconnected elongated members.
13. (*Original*) The organic electronic device of claim 12, wherein a thickness of said elongated members is greater than a thickness of said first layer, said thickness of said elongated members being measured substantially perpendicularly to said first layer.
14. (*Original*) The organic electronic device of claim 12, wherein said elongated members form intersecting lines.
15. (*Previously Presented*) The organic electronic device of claim 12, wherein a total surface area of said elongated members overlapping said first layer is less than about 50 percent of a surface area of said first layer.
16. (*Previously Presented*) The organic electronic device of claim 12, wherein a total surface area of said elongated members overlapping said first layer is less than about 25 percent of a surface area of said first layer.
17. (*Previously Presented*) The organic electronic device of claim 12, wherein a total surface area of said elongated members overlapping said first layer is less than about 10 percent of a surface area of said first layer.

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18. (*Original*) The organic electronic device of claim 12, wherein an area surrounding a point of short circuit in said first layer is capable of being ablated by heat generated by said short circuit.

Claims 19-21 Canceled

22. (*Original*) The organic electronic device of claim 12, wherein said device is an organic electroluminescent device ("OELD"), said first electrode is an anode, said second electrode is a cathode, and said electrically and optically active organic material is an organic EL material.

23. (*Original*) The organic electronic device of claim 22, wherein said thickness of said first layer is in a range from about 1 nm to about 25 nm, and said thickness of said elongated members is in a range from about 10 nm to about 500 nm.

24. (*Canceled*) The organic electronic device of claim 23, wherein said first and second electrically conducting materials are the same, and said second electrically conducting material is selected from the group consisting of K, Li, Na, Mg, La, Ce, Ca, Ba, Ag, In, Sn, Zn, Zr, Sm, Eu, alloys thereto, and mixtures thereof.

25. (*Canceled*) The organic electronic device of claim 23, wherein said first and second electrically conducting materials are different, and said second electrically conducting material is selected from the group consisting of K, Li, Na, Mg, La, Ce, Ca, Sr, Ba, Al, Ag, In, Sn, Zn, Zr, Sm, Eu, alloys thereof, and mixtures thereof.

26. (*Original*) The organic electronic device of claim 22, wherein said organic EL material is selected from the group consisting of poly(N-vinylcarbazole); poly(9,9-dihexylfluorene); poly(dioctylfluorene); poly{9,9-bis(3,6-dioxaheptyl)-fluorene-2,7-diyl}; poly(2-decyloxy-1,4-phenylene); poly(di-n-butylsilane); poly(di-n-pentylsilane); poly(di-n-hexylsilane); poly(methylphenylsilane); poly{bis(p-butylphenyl) silane}; 1,3,5-tris{n-(4-diphenylaminophenyl) phenylamino}benzene; phenylanthracene; tetraarylethene; coumarin; rubrene; tetraphenylbutadiene; anthracene; perylene; coronene; aluminum-acetylacetone; gallium-acetylacetone; indium-acetylacetone; aluminum-(picolymethylketone)-bis{2,6-di(t-butyl)phenoxide}; scandium-(4-methoxy-picolylmethylketone)-bis(acetylacetone); chelated oxinoid compounds; poly{2-methoxy-5(2'-ethyl-hexyloxy)-1,4-phenylene-1,2-ethenylene-2,5-dimethoxy-1,4-phenylene-1,2-ethenylene}; dibenzotetraphenylperiflanthene; polythiophene; perylene tetraesters; triphenylene hexaethers; amino-substituted perylene derivatives; azlactone derivatives; derivatives of pentacene; derivatives of pyran; porphyrins of platinum, palladium, europium, or zinc; malenitriledithiolate phosphonate

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complexes of platinum, palladium, or zinc; derivative of europium (III) phenanthroline; and iridium (III) bis(2-(2'-benzothienyl)-pyridinato-N-C^{3'})(acetylacetone).

27. (*Currently amended*) An OELD comprising:

- (a) a first electrode;
- (b) a second electrode that comprises a first layer of a first electrically conducting material, and a plurality of electrically interconnected elongated members comprising a second electrically conducting material, said elongated members being disposed on said first layer; and
- (c) at least an organic EL material disposed between said first electrode and said first layer of said second electrode on a surface of said first layer opposite to the plurality of electrically interconnected elongated members;

wherein said first electrode comprises a substantially transparent electrically conducting material; said first electrically conducting material of said second electrode is selected from the group consisting of K, Li, Na, Mg, La, Ce, Ca, Ba, Ag, In, Sn, Zn, Zr, Sm, Eu, alloys thereof, and mixtures thereof, and said second electrically conducting material of said second electrode is selected from the group consisting of ~~K, Li, Na, Mg, La, Ce, Ca, Sr, Ba, Al, Ag, In, Sn, Zn, Zr, Sm, Eu~~, alloys thereof, and mixtures thereof; said first layer of said second electrode has a thickness in a range from about 1 nm to about 25 nm; said elongated members have a thickness in a range from about 10 nm to about 500 nm, said thickness being measured substantially perpendicularly to said first layer of said second electrode; and said at least an organic EL material is selected from the group consisting of poly(N-vinylcarbazole); poly(9,9-dihexylfluorene); poly(dioctylfluorene); poly{9,9-bis(3,6-dioxaheptyl)-fluorene-2,7-diyl}; poly(2-decyloxy-1,4-phenylene); poly(di-n-butylsilane); poly(di-n-pentylsilane); poly(di-n-hexylsilane); poly(methylphenylsilane); poly{bis(p-butylphenyl)silane}; 1,3,5-tris{n-(4-diphenylaminophenyl) phenylamino}benzene; phenylanthracene; tetraarylethene; coumarin; rubrene; tetraphenylbutadiene; anthracene; perylene; coronene; aluminum-acetylacetone; gallium-acetylacetone; indium-acetylacetone; aluminum-(picolymethylketone)-bis{2,6-di(t-butyl)phenoxy}; scandium-(4-methoxy-picolylmethylketone)-bis(acetylacetone); chelated oxinoid compounds; poly{2-methoxy-5(2'-ethyl-hexyloxy)-1,4-phenylene-1,2-ethenylene-2,5-dimethoxy-1,4-phenylene-1,2-ethenylene}; dibenzotetraphenylperiflanthene; polythiophene; perylene tetraesters; triphenylene hexaethers; amino-substituted perylene derivatives; azlactone derivatives; derivatives of pentacene; derivatives of pyran; porphyrins of platinum, palladium, europium, or zinc; malenitriledithiolate phosphonate complexes of platinum, palladium, or zinc; derivative of europium (III) phenanthroline; and iridium (III) bis(2-(2'-benzothienyl)-pyridinato-N-C^{3'})(acetylacetone).

Claims 28-36 canceled

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37. (*Currently amended*) A light source comprising a plurality of organic electroluminescent devices ("OELDs") disposed on a support, each of said OELDs comprising:

(a) a first electrode;

(b) a second electrode that comprises a first layer of a first electrically conducting material comprising at least one metal or alloy selected from the group consisting of K, Li, Na, Mg, La, Ce, Ca, Ba, Sm, Eu, alloys thereof, and mixtures thereof, and a plurality of electrically interconnected elongated members that comprise a second electrically conducting material selected from Mg, Al, Ag, In, Sn, Zn, Zr, alloys thereof, and mixtures thereof, and that are disposed on said first layer;

(c) at least an organic EL material disposed between said first electrode and said first layer of said second electrode on a surface of said first layer opposite to the plurality of electrically interconnected elongated members;

wherein a thickness of said elongated members is greater than that of said first layer, said thickness of said elongated members being measured substantially perpendicularly to said first layer.

Claims 38-50 canceled